

STARODUBTSEV, S.V.; LYUTOVICH, A.S.; PRUTKIN, V.P.

Phosphorus diffusion in high-purity polycrystalline silicon.

Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 8 no.1:77-81 '64.

(MIRA 17:6)

1. Fiziko-tehnicheskiy institut AN UzSSR.

23757-65 FMT(m)/T/EXP(t) IJP(c) JD

ACC NR: AP6008553

SOURCE CODE: UR/0166/66/000/001/0085/0086

40

AUTHOR: Starodubtsev, S. V.; Kharchenko, V. V.; Prutkin, V. P.; Lyutkovich, A. S.

B

ORG: Physics Technical Institute, AN UzSSR (Fiziko-tehnicheskiy institut AN UzSSR)

TITLE: Diffusion of phosphorus in epitaxial silicon ✓

SOURCE: AN UzSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 1, 1966, 85-86

TOPIC TAGS: epitaxial growing, single crystal, phosphorus, silicon

18

ABSTRACT: The authors investigated the diffusion of phosphorus in epitaxial layers of silicon grown from the gas phase by means of the reaction of hydrogen reduction of silicon chloride. The experiments were performed on single crystal films with a specific resistance of the order of $90 \text{ ohm} \cdot \text{cm}$ grown at 1200C on silicon base layers. The results show that the phosphorus diffusion coefficient in epitaxial film at 1000C is $3 \cdot 10^{-12} \text{ cm}^2/\text{sec}$, and differs considerably from the phosphorus diffusion coefficient at the same temperature in single crystals of silicon ($3 \cdot 10^{-14} \text{ cm}^2/\text{sec}$). This, apparently, is related to the characteristics of the structure of epitaxial films. Orig. art. has: 1 figure.

SUB CODE: 20.0% SUBM DATE: 08Aug65 / ORIG REF: 001 / OTH REF: 006

Card 1/1

ACC NR: AR6025735

SOURCE CODE: UR/0058/66/000/004/A069/A069

AUTHOR: Starodubtsev, S. V.; Kharchenko, V. V.; Lyutovich, A. S.; Prutkin, V. P.

TITLE: Study of the character of the distribution of the dopant in epitaxial silicon films

SOURCE: Ref. zh. Fizika, Abs. 4A583

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 37-38

TOPIC TAGS: silicon, epitaxial growing, semiconducting film, tracer study, neutron irradiation, thermal neutron/ B-2 single channel analyzer

ABSTRACT: A radioactive tracer method was used to investigate the distribution of P in epitaxial films obtained by hydrogen reduction of silicon tetrachloride on Si substrates. A stable isotope of P, introduced in the initial tetrachloride in the form of PCl_3 , was reduced with hydrogen and carried together with the Si into the epitaxial layer. The films were irradiated by a flux of thermal neutrons with density 10^9 cm^{-2} . The stable isotope of P then went over into the radioactive isotope (P^{32}), whose distribution in the body of the film was investigated by the removal-of-layers method, using a single-channel B-2 analyzer. The character of the distribution curves obtained by this method is discussed. [Translation of abstract]

SUB CODE: 20

Card 1/1 Rf

ACC NR: AR6030485

SOURCE CODE: UR/0275/66/000/006/B009/B009

AUTHOR: Starodubtsev, S. V.; Kharchenko, V. V.; Lyutovich, A. S.; Prutkin, V. P.

TITLE: Investigation of distribution of doping impurity in epitaxial silicon films

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 6B59

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dok. Novosibirsk, 1965, 37-38

TOPIC TAGS: epitaxial silicon, silicon semiconductor, silicon film

ABSTRACT: Epitaxial films produced by hydrogen reduction of silicon tetrachloride on silicon backing were studied. A stable phosphorus isotope introduced in the source tetrachloride as PCl_3 was reduced by hydrogen and, along with the silicon, passed to the epitaxial layer. The resulting doped epitaxial films were irradiated with thermal neutrons of 10^9 per cm^2 density in a reactor channel. The stable phosphorus isotope was turned into radioactive P^{32} whose distribution in the film was studied in a single-channel B-2 analyzer by the method of taking off the layers. The nature of the resulting distribution curves is discussed. From the author's abstract.

[Translation of abstract]

SUB CODE: 09, 11

Card 1/1 UDC: 621.315.592:548.552:546.28:548.28

PRUTKIN, Ya.

Establishing work and wage norms. Grazhd. av. 14 no.3:21-23 Mr '57.
(MLRA 10:6)

1. Nachal'nik Otdela truda i zarabotnoy platy Glavnogo upravleniya
Grazhdanskogo vozduzhnogo flota.
(Wages) (Aeronautics, Commercial)

PRUTKIN, Ya.

Labor and wages. Grazhd. av. 20 no.6:9 Je 163. (MIRA 16:8)

(Aeronautics, Commercial) (Wages)

YANKIN, K.; PRUTKIN, Ya.

In response to readers' queries. Grazhd. av. 19 no.11:27
N '62. (MIRA 16:1)

1. Glavnnyy meteorolog Glavnogo upravleniya Grazhdanskogo
vozdushnogo flota (for Yankin). 2. Nachal'nik otdela truda i
zarabotnoy platy Glavnogo upravleniya Grazhdanskogo vozдуш-
nogo flota (for Prutkin).

(Weather forecasting) (Flight crews)

PRUTKIN, Ya.I.

New trends in wages. Grazhd.av. 18 no.11:24-26 N '61.
(MIRA 15:2)
(Wages--Aeronautics, Commercial)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420006-8

PRUTKINA, I.A.

Groups covered by two closed semigroups. Mat. zap. Ural.
mat. ob-na. UrGU 4 no.1:70-73 '63. (MIPA 17:9)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420006-8"

SHASHKIN, V.L.; SHUMILIN, I.P.; FRUTKINA, M.I.

Relation between β -and γ -radiation of natural radioactive elements.
Atom. energ. Supplement no.6:136-145 '57. (MIRA 11:7)
(Radioactivity)

PRUTKINA, M. I.; SHASHKIN, V. L.; and SHUMILIN, I. P.,

"Relationship between the α - and β - Radiation in Natural Radioactive Elements,"
Problems in the Geology of Uranium, 159 p (Series: Atomnaya energiya. Prilozheniya,
1957, No. 6).

FRUTKOV, B.G., inzh.

Control of traffic noise in cities. Gor. khoz. Mosk. 35 no.10:
27-29 O '61. (MIRA 16:7)

(City traffic—Noise)

SHISHKIN, I.A., kand.tekhn.nauk; OSIROV, G.L., kand.tekhn.nauk;
PRUTKOV, B.G., inzh.

Protecting residential areas from city noise. Izv.ASiA no.3:57-
68 '62. (MIRA 15:11)

(Noise control)

L 56668-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM
ACCESSION NR: AP5017848

UR/0286/65/000/011/0080/0080
678.84+678.643

AUTHOR: Prutkov, L. M.; Andrianov, K. A.; Polikanin, N. A.; Asnovich, E. Z.

TITLE: A method for producing molding compounds. Class 39, No. 171577

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 11, 1965, 80

TOPIC TAGS: molding material, plastic, graft copolymer

ABSTRACT: This Author's Certificate introduces a method for producing molding compounds based on a filler and binders--synthetic resins. The useful properties of the molding compounds are improved by using binders consisting of graft copolymers of epoxy resin and a polyorganosiloxane which contains a secondary amino group in the side chain.

ASSOCIATION: none

SUBMITTED: 24Mar62

ENCL: 00

SUB CODE: MT, QC

NO REF SOV: 000

OTHER: 000

Card 1/1

ACC NR: AP7000337 (A) SOURCE CODE: UR/0413/66/000/022/0094/0095

INVENTOR: Prutkov, L. M.; Kamenskiy, I. V.

ORG: none

TITLE: Method of manufacturing high-temperature oxidation-resistant phosphor containing furan resins. Class 39, No. 188672

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 94-95

TOPIC TAGS: furan resin, phosphorus chloride, phosphonic acid

ABSTRACT: A method has been introduced for obtaining high-temperature oxidation-resistant phosphor-containing furan resins by heating with furan derivatives and phosphor-containing compounds. In order to obtain a wider variety of resins, furfuralcohol, furfurol, and furfurylidnaminoethanol as well as phosphorus oxychloride, diacid chloride of methylphosphinic acid, and triethylphosphate are used. [Translation] [KP]

SUB CODE: 11/SUBM DATE: 02Mar63/

Card 1/1

UDC: 678.85:547.722

L 5296-66 EWT(m)/EPF(c)/EWP(j)/T RM
ACC NR: AP5025017 SOURCE CODE: UR/0286/65/000/016/0080/0080

AUTHORS: Prutkov, L. M.; Polikanin, N. A.; Kamenskiy, I. V.; Sanin, I. K.;
Kutepov, D. F.; Korshak, V. V.

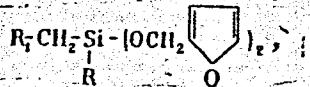
ORG: none

TITLE: A method for obtaining epoxy compositions. Class 39, No. 173926 15

SOURCE: Byulleten' izobreteniy i tovarknykh znakov, no. 16, 1965, 80

TOPIC TAGS: epoxy, nitrogen, hardener, organosilicon, alkyl, aryl, aralkyl

ABSTRACT: This Author Certificate presents a method for obtaining epoxy compositions by applying, as a hardener, an oligomer based on nitrogen-containing organosilicon compounds. To increase the thermal stability of the hardened epoxy compositions, use is made of the oligomers based on aminoalkyldifurfuroloxy silane of the general formula:



where R is alkyl, aryl, or aralkyl, and R₁ is RNH or NH₂.

Card 1/2

UDC: 678.643.002.2:678.028.84

09210547

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420006-8

L 5296-66

ACCESSION NR: AP5025017

SUB CODE:NT,OC,GC/ SUB. DATE: 17Aug64/ ORIG REF: 000/ OTH REF: 000

PC
Card 2/2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420006-8"

ACC NR: AP6015625 (A) SOURCE CODE: UR/0413/66/000/009/0025/0025

INVENTOR: Prutkov, L. M., Sanin, I. K., Kamenskiy, I. V.; Kutepov, D. F.

ORG: none

TITLE: Method of obtaining alkyl(aryl)aminoalkylfurfurylhydroxysilanes.¹ Class 12,
No. 181106 16

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 25

TOPIC TAGS: silane, hydroxysilane, ethoxysilane

ABSTRACT: An Author Certificate has been issued for a method of obtaining
alkyl(aryl)aminoalkylfurfurylhydroxysilanes. Alkyl(aryl)aminoethoxysilanes are
treated with alcohols of the furan series upon heating. The heating is carried out
at 60—150C. [Translation] [NT]

SUB CODE: 11/ SUBM DATE: 25Feb65/

07/

Card 1/1

UDC: 547. 419. 5' 722. 07

L 56/69-45 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-h/Pr-h/Ps-h WW/RM
ACCESSION NR: AP5017847 UR/0286/65/000/011/0080/0080
678.046.7 2 34 10

AUTHOR: Matveyev, M. A.; Rabukhin, A. I.; Gurdzhii, F. M.; Polikanin, N. A.;
Levitskiy, M. H.; Ankudinova, V. F.; Frutkov, L. M.

TITLE: A method for making transparent plastic 10

SOURCE: Byulleten' izobreteniya i tovarnykh znakov, no. 11, 1965, 80

TOPIC TAGS: transparent plastic, fiberglass

ABSTRACT: This Author's Certificate introduces a method for making transparent plastic based on Author's Certificate No. 128992. Plastics with improved properties are produced by treating a fiberglass filler with mixed epoxymetallosiloxanes which form a bond with the glass and contain furfuroxyl groups. A phosphate binder is then applied to the treated fiberglass.

ASSOCIATION: none

SUBMITTED: 20Jul62

ENCL: 00

SUB CODE: MT

NO REF Sov: 000

OTHER: 000

Card 1/1

KOMISSAROVA, L.N.; GRANOVSKIY, Yu.V.; PRUTKOVA, N.M.; ADLER, Yu.P.;
NALIMOV, V.V.

Application of mathematical methods of experiment designing
during the study of the mechanism of zirconium extraction.
Zav.lab. 29 no.3:327-330 '63. (MIRA 16:2)

1. Moskovskiy gosudarstvennyy universitet i Gosudarstvennyy
nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy
promyshlennosti.

(Zirconium)
(Extraction (Chemistry))
(Mathematical statistics)

Study of neutral imino diacetates of certain metals by infrared
spectroscopy. Dokl. AN SSSR 161 no. 3 p. 652-5. (MIRA 12:5)

I. M. Shchukina, A. V. Kostylev, N. V. Kostyleva.

S/032/63/029/001/015/022
B104/B186

AUTHORS: Komissarova, L. N., Granovskiy, Yu. V., Prutkova, N. M.,
Adler, Yu. P., Nalimov, V. V., and Spitsyn, Vik. I.

TITLE: Determination of optimal extraction conditions for
microquantities of hafnium using tributyl phosphate

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 1, 1963, 65-68

TEXT: Optimum conditions for extracting microquantities of hafnium from
nitric acid solutions using tributyl phosphate are sought by means of the
Box-Williams method (V. V. Nalimov, Uspekhi khimii, 29, 11, 1362 (1960),
Zavodskaya laboratoriya, v. 29, no. 1, 1963, 60, G. E. Box, K. B. Wilson,
J. Roy Stat. Soc. (B), 13, 1 (1951)). Parameters: X_1 is the concentration
of the nitric acid in the aqueous initial solution (N); X_2 is the concen-
tration of tributyl phosphate in o-xylene (volume-percent); X_3 is the
phase ratio ($V_o : V_B$); X_4 is the extraction time(min). The optimization pa-
rameter is the hafnium distribution factor y. Working from an arbitrarily
Card 1/2

S/032/63/029/001/015/022

B104/B186

Determination of optimal extraction ...

chosen point in the X_i space and using programming matrices with the results of three test series, it is determined how the test conditions must be varied, in order to achieve an optimum distribution factor. In the three series it was possible to obtain distribution factors of 44,0, 160,0 and 303,0 respectively. There are 5 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet i Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy promyshlennosti
(Moscow State University and State Design and Planning Scientific Research Institute of Rare Metals Industry)

Card 2/2

S/081/61/000/001/003/017
A005/A105

Translation from: Referativnyy zhurnal, Khimiya, 1961, No. 1, p. 93, # 1V1

AUTHORS: Patkin, P.N., Berezkina, V.V., Prutkova, N.M.

TITLE: The Extraction of Rare-Earth Elements and Yttrium From Nitrate Solutions by Tributyl Phosphate

PERIODICAL: "Izv. Timiryazevsk. s.-kh. akad.", 1960, No. 3, pp. 196-205 (English summary)

TEXT: The equilibrium distribution of lanthanide nitrate between the aqueous and organic phases shifts into the side to form the complex $R(NO_3)_3 \cdot 3(C_4H_9)_2PO_4$ with an increase in intensity of intermingling of the phases. For strongly uniform intermingling of both phases, the stable distribution of the nitrates of rare-earth elements according to the phases is ensured with obtaining a constant value of the distribution ratio, which characterizes the regularity of the behavior of the rare-earth elements under given conditions. The saturated nitrate solutions of the rare-earth elements (4-7 Mol HNO₃, 8-5 Mol NH₄NO₃) are most suitable for separating the rare-earth elements. ✓
Authors' summary

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

S/032/63/029/003/012/020
B101/B186

AUTHORS: Komissarova, L. N., Granovskiy, Yu. V., Prutkova, N. M.,
Adler, Yu. P., and Nalimov, V. V.

TITLE: Application of mathematical experimental programming methods
to studying the extraction of zirconium

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 3, 1963, 327 - 330

TEXT: For extracting zirconium by means of tributylphosphate (TBP) three possible reaction equations are written down: $Zr^{4+} + 4NO_3^- + TBP \rightleftharpoons Zr(NO_3)_4 \cdot TBP$; $Zr^{4+} + 4NO_3^- + 2TBP \rightleftharpoons Zr(NO_3)_4 \cdot 2TBP$; $Zr^{4+} + 2H^+ + 4NO_3^- + 2TBP \rightleftharpoons Zr(NO_3)_4 \cdot 2TBP + H_2O$. The equations for the apparent extraction constants \tilde{K}_e are linearized to: $\log D = \log \tilde{K}_{e_1} + 4 \log X_H + \log T$; $\log D = \log \tilde{K}_{e_2} + 4 \log X_H + 2 \log T$; $\log D = \log \tilde{K}_{e_3} + 6 \log X_H + 2 \log T$. Here X_H is the equilibrium concentration of the hydrogen ions, T is the concentration of

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S/032/63/029/003/012/020

Application of mathematical experimental... B101/B186

the free TBP in the organic phase, D the distribution factor. The following independent variables were chosen for programming: $X_1 = \log_2 X_H - 1.5$ and $X_2 = 2(\log_2 T + 2.5)$. The dependent variable is $y = \log_2 D$. The regression equation $y = -4.2230 + 3.609236X_1 + 0.7768862X_2 + 0.7814312X_1^2 + 0.5988127X_2^2 + 0.000725X_1X_2$. The extraction was performed using TBP diluted with xylene. The distribution was examined with $1 \cdot 10^{-5}$ mole/l Zr⁹⁵. The value of X_H was varied from 1.053 to 7.50 and that of T from 0.108 to 0.250. The center of the experiment was close to $X_H = 2.83$, $T = 0.177$.

Results: None of the three reaction equations describes the extraction process correctly. The data obtained from the regression equation do not agree with the experimental ones. Side reactions, as e.g. the formation of different solvates and complexes (such as the complex $H_{n-2}ZrO(NO_3)_n$) are likely to occur. Nevertheless the regression equation can be used to estimate D. Here the error is four times the experimental error. There are 2 tables.

Card 2/3

S/032/63/029/003/012/020

B101/B186

Application of mathematical experimental...

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University); Gosudarstvennyy nauchno-issledovatel'skiy i proyektornyj institut redkometallicheskoy promyshlennosti (State Design and Planning Scientific Research Institute of the Rare Metals Industry)

Card 3/3

PATKIN, P.N., kand.khimicheskikh nauk; BEREZKINA, V.V., mladshiy nauchnyy sotrudnik; PHUTKOVA, N.M., laborant

Extraction of rare earth elements and yttrium from nitrate solutions with tribytyl phosphate. Izv. TSKhA no.3:196-205 '60. (MIRA 14:4)

1. Timiryazevskaya sel'skokhozyaystvennaya akademiya (for Patkin). 2. Institut redkikh metallov (for Prutkova).
(Rare earth compounds) (Yttrium)

USSR/Virology. Viruses of Man and Animals E
Abs. Jour : Ref Zhur-Biol., No 13, 1958, 57379
Author : Strigin V. A., Bychkova V. N., Golovina A. F., Zaynutdinova L. Zh., Lagoe N. M., Nechlevic Z. I., Grutkovskaya N. T., Gudikova Y. S.
Inst : Ufa Scientific-Research Institute of Vaccines and Serums
Title : Experimental Study of the Epidemiological Effectiveness of Antiinfluenza Vaccination
Orig Pub : Fr. Ufimsk. n.-i, in-ta vaksin i svyvorotok, 1957, vyp. 4, 205-209

Abstract : Five thousand nine hundred twenty-three persons were vaccinated with dry live vaccine ("SK") of the Moscow Scientific-Research Institute of Vaccines and Serums imeni Kochanikov (4555 in the non-vaccinated group). The vaccine lowered disease

Card 1/2

USSR/Virology. Viruses of Man and Animals

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57379

Abstract : incidence by no less than 2.5 times. The reactogenesis was inconsiderable. One series of vaccines was found to be ineffective.

PRUTKOVSKIY, S.A., inzh.; TSIKHANOVICH, B.G., inzh.

Press forging of the active steel stators of hydraulic generators.
Vest.elektroprom. 33 no.1:70-71 Ja '62. (MIRA 14:12)
(Hydraulic presses)

KOBENZHAGEN, Kemi. tekn. mnt; RUDOLPHOVSKY, V.A., Instn.: EG-ANNU,
S.S.R.; Russ.

First results of the adjustment and experimental runs of a steam
and gas system with a high-pressure steam generator with a 120 t/hr.
evaporative capacity. Teploenergetika 11 no. 12-13 S. 14.
(NPA 12:8)

1. Glavnoi nauchno-issledovatel'skiy kotloturbinnyy institut
imeni I.I.Polzunova i Gidroelektricheskaya stantsiya N.1 Zeningrad-
skogo gosudarstvennogo upravleniya energeticheskogo khozyaystva.

KORNEYEV, M.I., kand. tekhn. nauk; PRUTKOVSKIY, Ye.N., inzh.; VASIL'YEVA,
I.F., inzh.

Characteristics of the start conditions of a steam gas system
with a high-pressure 120 t/hr steam generator and GT-700-4-1
gas turbine. Energomashinostroenie 10 no.111-6 N '64
(MIRA 18:2)

KORNEYEV, M.I., kand.tekhn.nauk; PRUTKCVSKIY, Ye.N., inzh.

Effect of the operating process on the design considerations of equipment of steam and gas systems with high-pressure steam generators. Energomashinostroenie 9 no.11:3-7 N '63. (MIRA 17:2)

KORNETEV, M.I., kand.tekhn.nauk; PRUTKOVSKIY, Ya.N., inzh.

Use of the gas from underground gasification of coal in large
steam-gas systems. Elek. sta. 32 no.2:22-27 F '61. (MIRA 16:7)
(Coal gasification, Underground) (Steam power plants)

L 33541-65

ACCESSION NR: AP5009156

S/0114/64/000/011/0001/0006

AUTHOR: Korneyev, M. I. (Candidate of technical sciences); Prutkovskiy, Ye. N.
(Engineer); Vasil'yeva, I. F. (Engineer)TITLE: Characteristics of the starting conditions for a steam-gas installation
with a high pressure steam generator of 120 tons per hour and a GT-700-4-1 gas
turbine

SOURCE: Energomashinostroyeniye, no. 11, 1964, 1-6

TOPIC TAGS: gas turbine engine, steam auxiliary equipment, high pressure,
thermoelectric power plant, thermoelectric generatorABSTRACT: [The first high pressure steam-gas installation in the SSSR with
a high pressure steam generator having a capacity of 120 tons per hour is
in experimental operation at Leningrad State Power Plant No 1. In April
1964, this installation developed a total power of 39 Mw. Following are
the fundamental calculated parameters and those attained during the first
tests.]

Card 1/3

L 33541-65

	Calculated	Actual
ACCESSION NR: AP5009156	+15	-2
Ambient Temperature, °C	8500	7540
Heat value of the natural gas, kcal/norm. m ³		
Steam pressure after the high pressure steam generator, abs. at.	100	98
Temperature of superheated steam, °C	540	543
Steam capacity of the high pressure steam generator, Tons/hour	120	128
Temperature of the outgoing gas, °C	120	120
Water temperature after high pressure heating, °C	190	not included
Steam flow through the high speed condensor, t/hr	---	10
Temperature of the gas before the gas turbine, °C	700	585
Power, kw:		
Gas turbine generator	4570	3350
High pressure steam generator	12000	11650
Low pressure steam generator	21400	24650
Expended for internal necessities	1323	1323
Net power	36647	38327
Net efficiency of the installation, %	34.9	32.2

Card 2/3

L 33541-65

ACCESSION NR: AP5009156

An analysis of the first tests on the installation show that the equipment is reliable. There is an increase in starting time which is connected with the starting characteristics of the gas turbine installation. The installation has a greater flexibility than steam turbine units of equal power and with identical steam parameters and yields a 50% saving in fuel for each start. It is advisable to use special starting engines for the steam-gas installation which assure maximum starting speeds. As a rule, the power of these special engines should be higher than the power of the gas turbine starters and is determined by the necessary starting time. Steam-gas installations which are made up of gas turbine units with a split shaft and a single-shaft gas turbine should have an additional combustion chamber which assures a reliable start and economic operation of the installations under all conditions. If there is no additional chamber, it is necessary to control the gas temperature by airflow around the high pressure steam generator. This type of control also facilitates synchronization of the electric generator. Orig. art. has 2 tables, 1 figure, and 7 graphs.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 008

OTHER: 000

JERS

Card 3/3

PRUTOVYKH, N.N.

Prolongation of the action of local anesthesia in surgery of the
fingers. Sov.med. 22 no.3:88-91 Mr '58. (MIRA 11:4)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - dotsent M.D.
Ponomarev) Novosibirskogo meditsinskogo instituta (dir. - prof.
G.D.Zaleskiy)

(FINGERS, surg.
anesth., procaino-alcohol prep. for prolonged eff.
(Rus))

(PROCAINE, anesth. & analgesia
with alcohol in finger surg. for prolonged eff.(Rus))

(ALCOHOL, ETHYL, anesth. & analgesia
with procaine in finger surg. for prolonged eff. (Rus))

FRUTOVSKA, N. N.: Master Med Sci (diss) -- "On the problem of the protracted effect of local anaesthesia in operations on the fingers". Novosibirsk, 1952.
15 pp (Novosibirsk State Med Inst), 300 copies (KL, No 5, 1952, 157)

PRUTOVYKH, N.N., kand. med. nauk (Novosibirsk, ul. Chaplygina, 97, kv.2)

Localization of varicose vein dilatation in liver cirrhosis. Vest.
khir. no.7:110-111 J1 '64. (MIRAI8:4)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - dotsent M.D.
Ponomarev) Novosibirskogo meditsinskogo instituta.

PRUTOVYKH, N.N., kand.med.nauk

Use of antibiotics in the surgery of suppurative diseases. Sov.med.
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nauki prof. G.D.Zalesskiy) i l-y klinicheskoy bol'nitsy (glavnnyy
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[Tables for calculating wages for state farm workers engaged in manual work and work with horse-drawn machinery where the piecework wage system is in operation] Tablitsy dlia nachisleniya zarabotnoi platy rabochim sovkhozov na konno-ruchnykh rabotakh; pri sdel'noi oplatе truda. Moskva, Gosstatizdat, 1962. 191 p. (MIRA 15:10)

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Rostovugol'.
(Donets Basin--Coal miners)

PRUTSKAYA, A.P.

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Kazakhstan. Vest. LGU 14 no.18:90-102 '59. (MIRA 12:8)
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PRUTSKAYA, A.P.

Continental Cenozoic sediments in the northwestern part of Kazakhstan,
based on the study of fresh-water mollusks found in this area. Vest.
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Generalizing the experience of the communist shockworkers movement.
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yield of winter wheat. Agrobiologija no.3:449-450 My-Je
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PRUTSKOV, F.M., kand. sel'khoz. nauk, dots.; RUBTSOVA, V.P., kand.
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V.S., red.; BYKOV, M.G., red.

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CIA-RDP86-00513R001343420006-8

PRUTSKOV, F.M., kand. sel'skokhozyaystvennykh nauk

Wheat cultivation in China. Zemledelie 6 no.11:81-84 N '58.
(MIRA 11:11)

(China--Wheat)

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CIA-RDP86-00513R001343420006-8"

SOURCE CODE: UR/0271/66/000/009/B004/B004

ACC NR: ARGO35367

AUTHOR: Prutskov, G. P.; Sivakov, V. A.

TITLE: Concerning the efficacy of using systems for automatically correcting random errors in computers

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 9B23

REF SOURCE: Sb. tr. Leningr. mekhan. in-ta, no. 51, 1965, 113-121

TOPIC TAGS: digital computer ~~syst~~, computer component, computer reliability, error correction

ABSTRACT: Note is taken of the urgent need for developing engineering methods of estimating the efficiency of using redundant equipment. Such methods would make it possible in each concrete case to take into account the specific nature of the network realization, the regularities governing the sequence of failures, etc. A simple method, convenient for use in engineering practice, is proposed for estimating the efficiency of devices that correct automatically stoppages of digital computers. The proposed method is proved first for an exponential distribution of the time of faultless operation of the digital-computer equipment, and is then generalized to the case of an arbitrary distribution of this time. Conditions of faultless operation of a digital computer containing besides the main equipment also redundant equipment, namely a certain system of automatically correcting random errors, are considered. By failure of a digital computer is meant here an uncorrected failure of the main or spare equip-

UDC: 681.142.019.3.001

Card 1/2

ACC NR: AR6035367

ment of the computer. The exposition is illustrated by means of an example. 3 illustrations. Bibliography, 6 titles. [Translation of abstract]

SUB CODE: 09

Card 2/2

ALEKSEYEV, M.P.; BAZANOV, V.G., doktor filologicheskikh nauk; PRUTSKOV,
M.I., doktor filologicheskikh nauk; ALEKSEYEV, I.A..

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43-47 My '56. (MLRA 9:8)
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FRUTSKOVA, M. G., UKHANOVA, O. I.

Wheat.

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Village

Obtaining high yields from winter crops sown on recently harvested land. Sov. agron. 11,
No. 3, 1953.

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PRUTSKOVA, M.G., kandidat sel'skokhozyaystvennykh nauk

Varieties of grain crops. Est.v shkole no.4:11-16 Jb-Ag '56.
MIRA 9:9)

1.Gosudarstvennaya komissiya po sorteispytanju sel'skokhozyaystven-
nykh kul'tur.

(Grain)

PRU 75467, M.6

AFANAS'YEVA, A.L., kand.biol.nauk; BAYERTUYEV, A.A., kand.sel'skokhozyaystvennykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozyaystvennykh nauk; BLOZEROV, N.A., agronom; BLOZOROV, A.T., kand.sel'skokhozyaystvennykh nauk; MAKSIMENKO, V.P., agronom; BERNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skokhozyaystvennykh nauk; VOLYNETS, O.S., agronom; BODROV, M.S., kand.sel'skokhozyaystvennykh nauk; BOGOSLAVSKIY, V.P., kand.tekhn.nauk; KIRUPPA, I.P., kand.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GALDIN, M.V., inzhener-mekhanik; GORASIMOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELNEV, A.V., inzhener-mekhanik; GORASKEVICH, S.V., mekanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozyaystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BARANOV, V.V., kand.tekhn.nauk; PAVLOV, V.D.; IVANOV, V.K., kand.sel'skokhozyaystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOCHERGIN, A.Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand.sel'skokhozyaystvennykh nauk; KUZNETSOV, I.N., kand.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'NIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyaystvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

AFANAS'YEVA, A.L.... (continued) Card 2.

NIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; NEFASHEV, N.I.,
lesovod; PERVUSHINA, A.N., agronom; PLOTNIKOV, N.A., kand.biol.nauk;
L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn.
nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO,
V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykh nauk;
PORTYANKO, A.P., agronom; RUCHKIN, V.N., prof.; RUSHKOVSKIY, T.V.,
agronom; SAVITSKIY, M.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN,
D.T., agronom; MESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand.
tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk;
SEREBRYANSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'sko-
khozyaystvennykh nauk; FAL'KO, O.S., iznh.; FEDYUSHIN, A.V., doktor
biol.nauk; SHESVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk;
YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENFEI'D, P.A.,
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(Siberia--Agriculture) (MIRA 11:2)

PRUTSKOV A. M. G. kand. sel'skokhozyaystvennykh nauk (Moskva)

The wealth of wheat varieties produced in the U.S.S.R. Agrobiologiya
no.5:18-29 S-0 '57. (MIRA 10:10)
(Wheat--Varieties)

PRUTSKOVA, M.G., kand. sel'skokhozyaystvennykh nauk

Great wealth of agricultural varieties of the U.S.S.R. represented
at the Brussels World's Fair. Zemledelie 6 no.4:46-49 Ap '58.
(MIRA 11:4)

(Brussels--Agricultural exhibitions)

PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk

Practices used in cultivating winter wheat in principal wheat growing regions. Zemledelie 7 no.6:54-62 Je '59.

(MIRA 12:8)

1. Goskomissiya po sortoispytaniyu sel'skokhozyaystvennykh kul'tur.

(Wheat)

PRUTSKOVA, M.G., kand. sel'khoz. nauk; UKHANOVA, O.I.; SAKHAROVA, L.I.;
BOLSHEVSKAYA, O.V.; IVANOVA, N.Ye.; LOVCHIKOV, I.S.; ZALKIND,
G.N.; IL'IN, M.I.; KOZ'MINA, K.A.; SHIKUT', V.A.; PETROVA,
Z.V.; GENERALOV, G.F.; BUDYUK, V.P.; GOMENYUK, L.I., red.

[New highly productive varieties of grain crops] Novye vysoko-
produktivnye sorta zernovykh kul'tur. Moskva, Kolos, 1965.
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BLYAKHEROVA, R.M.; PISARENKO, G.S.; SIDORENKO, M.S.; FRUTSKOVA,
M.G.; SAMSONOV, M.M.; KRAVTSOVA, B.Ye.; LYUBARSKIY, I.I.;
SUDNOV, P.Ye.; PAYKIN, D.M.; KRYLATOV, Z.A., red.

[Recommendations for the production of strong and durum
wheat] Rekomendatsii po proizvodstvu zerna sil'nykh i tver-
cykh pshenits. Moskva, Izd-vo "Kolos," 1964. 63 p.

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Upravleniye nauki, propagandy i vnedreniya peredovogo opyta.
2. Ministerstvo sel'skogo khozyaystva SSSR (for Blyakherova,
Pisarenko, Sidorenko).
3. Gosudarstvennaya komissiya po sorto-
ispytaniyu sel'skokhozyaystvennykh kul'tur pri Ministerstve
sel'skogo khozyaystva SSSR (for Frutskova, Samsonov).
4. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i
produktsii ego pererabotki (for Kravtsova, Lyubarskiy, Sudnov).
5. Vsesoyuznyy institut zashchity rasteniy (for Paykin).

PRUTSKOVA, Mariya Grigor'yevna; UKHANOVA, Oktyabrina Ivanovna;
BLOKHINA, V. V., red.; BELOVA, N.N., tekhn. red.

[Winter wheat "Bezostaia 1."] Ozimaia pshenitsa Bezostaia 1.
Moskva, Sel'khozizdat, 1962. 93 p. (MIRA 16:3)
(Wheat--Varieties)

PRUTSKOVA, M.G., kand. sel'khoz. nauk; UKHANOVA, O.I., starshiy agronom;
SAMSONOV, M.M., kand. sel'khoz. nauk; MARINICH, P.Ye., red.;
KONDRATOVA, N.A., red.; PECHENKIN, I.V., tekhn. red.

[Bezostaia 1, an awnless winter wheat variety] Ozimaia pshenitsa
Bezostaia 1. Moskva, Izd-vo M-va sel'khoz. SSSR, 1960. 47 p.
(MIRA 14:8)

1. Russia(1923- U.S.S.R.) Gosudarstvennaya komissiya po sorto-
ispytaniyu sel'skokhozyaystvennykh kul'tur. 2. Zamestitel' pred-
sedatelya Goskomissii po sortoispytaniyu sel'skokhozyaystvennykh
kul'tur pri Ministerstve sel'skogo khozyaystva SSSR (for Nazarenko)
(Wheat—Varieties)

PRUTSKOVA, M.G., kand. sel'khoz. nauk; UKHANOVA, O.I., star. agronom;
ZHAROVA, Ye.N., star. agronom; KONDRATOVA, N.A., red.; PECHEN-
KIN, I.V., tekhn. red.

[Belotserkovskaya 198 winter wheat] Ozimaia pshenitsa Belotser-
kovskaya 198. Moskva, Izd-vo M-va sel'.khoz. SSSR, 1960. 63 p.
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(Wheat—Varieties)

PRUTSKOVA, M.G., kand. sel'khoz. nauk; BOLSUNOVSKAYA, O.V., agronom;
LOVCHIKOV, I.S., agronom; MARINICH, P.Yo., red.; KONDRATOVA,
N.A., red.; PECHENKIN, I.V., tekhn. red.

[New strong and durum spring wheat varieties; Saratov 29,
Saratov 210, Bezenchuk 98, Kharkov 46, Melianopus 26] No-
vye sorta sil'nykh i tverdykh iarovykh pshenits; Saratov-
skaya 29, Saratovskaya 210, Bezenchukskaya 98, Khar'kovskaya
46, Melianopus 26. Moskva, Izd-vo M-va sel'.khoz. SSSR, 1960.
73 p.

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ispytaniyu sel'skokhozyaystvennykh kul'tur. 2. Zamestitel' pred-
sedatelya Gosudarstvennoy komissii po sortoispytaniyu sel'sko-
khozyaystvennykh kul'tur (Marinich)

(Wheat--Varieties)

RAKHLIN, L. M.

"In Connection with the Article 'Hypo-and Anoxy-Myocardia' by Prof. M. Ya. Ar'yev and
Ye P. Kartsevaya," Klin. Med. 26, No. 4, 1948. Prof. Kazan, -c1948-.

BESTUGIN, A.V.; IVANOV, D.I.; MALKIN, V.B.; PRUTSKOY, A.N. (Moskva)

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on an electrocardiograph. Fiziol. zhur. 43 no. 9:906-908 S '57.
(MIRA 10:11)

(BALLISTOCARDIOGRAPHY, apparatus and instruments,
piezo-electric counter for registration on
electrocardiograph (Rus))

ALTUKHOV, G.V.; MALKIN, V.B.; PRUTSKOY, A.N.

Registration of cardiac sounds on a portable electrocardiograph
with the aid of a differential intensifier. Klin.med.,Moskva 29
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I. Moscow.

Uchastok robotov po-motornym. Cyst isol'evannii vnutrenniih rezervov na Zvezdu i zashchita
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PRUTYAN, L.

On a principle of public use. Mor. flot 22 no. 6:36-37 Je '62.
(MIRA 15:7)
1. Predsedatel' sektsii po obmenu optyom i informatsii
TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva
vodnogo transporta.
(Merchant marine) (Design, Industrial)

PRUTTYAN, L.

Ship repair industry in Great Britain. Mor.flot 19 no.12:
40-42 D '59. (MIRA 13:3)

1. Nachal'nik TSentral'nogo proyektno-konstruktorskogo
byuro No.2. (Great Britain--Ships--Maintenance and repair)

PRUTYAN, L.

Tasks for the members of the Scientific Technological Society in
increasing efficiency promotion and inventions in the merchant marine.
Mor. flot 20 no.11:38-39 N '60. (MIRA 13:11)

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(Merchant marine—Technological innovations)

BUKHMAN, Vil'yam Aronovich; PUGACH, Konstantin Abramovich;
PRUTYAN, L.N., red.; PANICHKINA, E.A., red. izd-va;
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[Mechanization of certain fitting and assembly operations in
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128 p. (MIRA 15:7)

(Ships--Maintenance and repair)
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MEGRABOV, Grayr Artem'yevich; PRUTYAN, L.N., red.; NELIDOVA, E.S.,
red. izd-va; LAVRENOVA, N.B., tekhn. red.

[Repair of marine power plants] Remont sudovykh silovykh ustav-
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tekhn. red.

[New developments in ship repairs] Novoe v sudoremonte;
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MOLDAVSKIY, Mikhail Semenovich; RANDS, Edgar Aleksandrovich; PRUTYAN, L.N.
redaktor; OFINA, V.I., redaktor izdatel'stva; TIKHONOVA, Ye.A..
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[Equipment used in ship repairing and shipbuilding; experience of
the machine shop of the Riga shipbuilding and ship repairing yards]
Prisposobleniya, primenyaemye v sudoremonte i sudostroenii; opyt
mekhanicheskogo tsekha Rizhskogo sudostroitel'no-sudoremontnogo
zavoda. Moskva, Izd-vo "Morskoi transport," 1956. 94 p. (MIRA 10:2)
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PRITYAGOV, T.P., FEDOROV, V.V.

Eliminating serious circulation loss in well No.1 in the prospecting
region of Tyube-Satan in the Ustek S.S.R. Burenis no.7-14-17 '64.
(MIRA 18:5)

I. Vsesoyuznyy nauchno-issledovatel'skiy institut burcovoy tekhniki.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420006-8

SKOBILKAY, N. S.; VNIITMASH, I. G.

Elimination of troubles related to circuited losses using
a net cover and plugging mixture with a filler. Trudy VNIIIBT
no. 972-68 '63.

(NIRA 17:9)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420006-8"

"APPROVED FOR RELEASE: 06/15/2000

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OKHRLMENKO, N.M.; PRUTYANOV, I.P.

New method for eliminating circulation loss. Neft. khoz. 41 no. 3:
18-20. Mr '63. (MIRA 17:11)

APPROVED FOR RELEASE: 06/15/2000

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~~REF ID: A6500~~
GAYVORONSKIY, A.A.; DYUKOV, L.M.; PRUTYANOV, I.P.

Cementing absorption zones. Neftianik 2 no.12:10-12 D '57.

(MIRA 11:2)

1. Sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta
Burtekhniki.

(Oil well cementing)

PRIVUL', Kh. V.:

PRIVUL', Kh. V.: "The effect of rhythmic changes in rations fed to suckling pigs on their growth and utilization of feed". Leningrad; 1955. Min Higher Education USSR. Leningrad Agricultureal Inst, (Dissertations for the Degree of Candidate of Agricultural Sciences.)

So. Knizhnaya letopis'. No. 49, 3 December 1955. Moscow.

KIRCHEV, P.; PRUVCHEV, N.

Otorhinolaryngological complications in viral influenza in 1947.
Suvrem med., Sofia no.4: 50-59 '60.

L. Iz Katedrata po fakultetska terapiia pri VMI, Sofiia (Rukov. na
katedrata: prof. M.Rashev) i Katedrata po ushni, nosni i gurleni
bolesti pri VMI, Sofiia (Rukov. na katedrata: prof. G.IAnkov)
(OTORHINOLARYNGOLOGY)
(INFLUENZA compl)

PRUVCHEV, Neno, Dr.

The influence of the so-called third tonsil on the child's growth.
Prir i znanie 14 no.5:16-18 My '61. (EEAI 10:9/10)

(TONSILS)

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(FOCAL INFECTION) (TONSILITIS)

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(SINUTISIS, in inf. & child,
ethymoid, compl. (Bul))

PRUZANSKIY, M.M. - PRUZANSKIY, M.M.
SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1807
AUTHOR PRUZANSKIJ, M.M.
TITLE Stabilization of the Frequency of Ultrashort Wave Generators
according to the Method of the Harmonic Excitation of Quartz.
PERIODICAL Radiotekhnika, 11, fasc.12, 15-27 (1956)
Issued: 1 / 1957

After a lengthy introduction the author comes to the conclusion that the solution of the problem of the immediate stabilization of ultra high frequency generators according to the method of the harmonic excitation of quartz must be possible in the following two directions: 1. Study of the properties of quartz plates on the occasion of harmonic excitation and perfectioning of the technique of their production. 2. Preparation of quartz generator schemes in which the damaging influence of the static capacity C_1 is compensated or neutralized, and realization of the possibility of a harmonic excitation of quartz in spite of a decrease of its "activity". The present work is devoted to the working out of quartz generator schemes for the immediate stabilization within the meter range according to the method of the harmonic excitation of quartz. The author gives a historical survey and describes the present stage of the problem. The numerous schemes of higher harmonic quartz generators within the ultrashort wave range may be divided into the following two basic groups: 1. Those in which the harmful static capacity of the quartz as well as its shunt capacities are not compensated. Here only "very active" quartz plates, and those only with a very low ordinal number of higher harmonics (third, fifth) can be excited. In order to bring this about it is necess-

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ary to carry out regeneration or to apply the method developed by ROCKSTUHL.
2. The second group comprises all those in the case of which a compensation of static capacity by means of "compensation" or bridge schemes is possible. These schemes have been worked out by the author in the course of the present work. The first class of the "compensation" schemes is characterized by the fact that quartz is connected in series into the autodyne circuit together with the shunting inductivity. The second class of the "compensation" schemes, on the other hand, is characterized by parallel connection (of the quartz etc.). In 1942 MASON and FAIR published papers on bridge schemes; however, these schemes have several disadvantages as, on the occasion of transition from one ordinal number of harmonic to another, the equilibrium of the bridge must be modified, which, however, leads to the loss of a very valuable property, i.e. the forming of wave ranges. The author of the present work therefore found it necessary to simplify the bridge schemes with a view of promoting the forming of wave-bands. He removed the tuned circuit from the main circuit of the generator, went over to autotransformer connection of the bridge with the anode-oscillation-circuit, made of the latter a two-cycle circuit with earthed center, and eventually adopted the scheme with an inductive-capacitive bridge. The characteristic feature of this bridge scheme consists in the fact that the self-excitation of the systems takes place at frequencies which are equal to or only slightly different from the frequency of the series-resonance of the excited higher harmonic of the quartz. Hereby a high fixing capacity of the generator, which is equal to that of the quartz, is attained. The investigation of the generator showed the possibility of exciting the quartz plates with higher harmonics of a high ordinal number.

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HAVA, Milos; FIALOVA, Olga; PRUZEK, Frantisek; SYRUCEK, Lubos; JELINKE, Jiri

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(STREPTOLYSIN, effects.
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